

PAT-NO: JP361106516A
DOCUMENT-IDENTIFIER: JP 61106516 A
TITLE: HYPOGLYCEMIC AGENT
PUBN-DATE: May 24, 1986

INVENTOR-INFORMATION:

NAME
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ASSIGNEE-INFORMATION:

NAME	COUNTRY
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APPL-NO: JP59227159

APPL-DATE: October 29, 1984

INT-CL (IPC): A61K035/78

US-CL-CURRENT: 514/54

ABSTRACT:

PURPOSE: A hypoglycemic agent containing a polysaccharide which is a water-soluble component of a plant belonging to Dioscorea genus, Dioscoreaceae family, as an active component.

CONSTITUTION: The raw or dried rhizome or propagule of a plant belonging to Dioscorea genus, Dioscoreaceae family (e.g. Dioscorea japonica, Dioscorea batatas, Dioscorea bulbifera, Dioscorea gracillima) is crushed or pulverized, and extracted with water or aqueous organic solvent (e.g. methanol). The amount of the extractant is 1.5~4 times volume of the raw material. The extracted liquid is concentrated and dried under reduced pressure, and further purified to obtain the polysaccharide useful as the active component. A hypoglycemic agent having little side effect can be prepared by using said polysaccharide as the active component. Dose: 10~300mg, preferably 30~100mg of the active component daily in 2~3 divided doses, in the form of an oral drug such as tablet, capsule, syrup, etc., or an injection.

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DERWENT-ACC-NO: 1986-173316

DERWENT-WEEK: 198627

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TITLE: Hypoglycaemic drug - contains aq. soln. of
polysaccharide extracted from plants, e.g. dioscoreaceae

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 61106516 A	May 24, 1986	N/A	004	N/A
JP 87007172 B	February 16, 1987	N/A	000	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 61106516A	N/A	1984JP-0227159	October 29, 1984

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ABSTRACTED-PUB-NO: JP 61106516A

BASIC-ABSTRACT:

Plant of Dioscoreaceae Dioscorea which contains polysaccharides of this invention is eq. Dioscorea Japonica Thanb, Dioscorea Batatas Deone, Dioscorea bulbifera Linn., Dioscorea Gracillima Miq., Dioscorea Asclepiadea Prain et Burkill. Rhizoma, etc. of the above plant is washed with water, crushed, and extd. by (1.5-4 fold against material) water or aq. organic solvent. As organic solvent, below 30% of lower alcohol eq. meOH or etOH is used.

Extn. is increased by heating. Extracted soln. is concd. in vacuo, below 40 deg.C. n-buOH may be added if foaming is occurred. Obtd. powder is poured into 20-40 fold of water and dissolved with stirring. Insoluble matter is removed by vac-filtration, and 4-6 fold of meOH or etOH is dropped to filtrate, and allowed to stand to form enough ppte. ppte is recovered by vacuum-filtration, and washed with mixed soln. (H₂O:etOH = 1:5), and vacuum dried.

Obtd. polysaccharides have excellent hypoglycemic effect and have scarcely side effects. Oral dose for adult is 10-300 mg/day, pref. 30-100 mg/day (divided

2-3 times).

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: HYPOGLYCAEMIC DRUG CONTAIN AQUEOUS SOLUTION
POLYSACCHARIDE EXTRACT
PLANT

DERWENT-CLASS: B04

CPI-CODES: B04-C02D; B12-H05;

CHEMICAL-CODES:

Chemical Indexing M1 *01*

Fragmentation Code

M423 M781 M903 P816 V735

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1986-074569